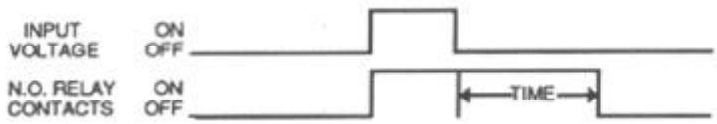
AMPERITE *Solving Your Timing Requirements Since 1922*

DOD Series TDR

Solid state analog circuitry
True delay on dropout: Timing cycle after power removal
DPDT (2 form C) isolated 4 ampere relay contacts
Timing selection: Knob adjustable or Fixed
Numerous models timing from 0.1 secs. to 300 secs.
UL File #E96739 (M)
CSA File #LR62586

Timing Mode:
Upon the application of input voltage the relay immediately energizes. The timing cycle begins when input voltage is removed. When the timing cycle is complete, the relay will de-energize. The relay contacts will reset when input voltage is reapplied.

Timing Diagram:



Contact Information:
Arrangement: 2 form C (DPDT) - Diagram C
Contact Material: Gold Clad Silver Alloy
Rating (Resistive):
Maximum Switching Power - 1000 VA, 90W
Maximum Switching Voltage - 250V AC, 48V DC
Maximum Switching Current - 4 Amperes
Nominal Switching Capacity - 4A 250V AC, 3A 30V DC
UL/CSA Ratings - 4A 1/20 HP 125, 250V AC, 3A 30V DC
Expected Life @ 25°C:
100 Million operations, Mechanical
Electrical: 100,000 operations at 4A 250V AC
200,000 operations at 3A 30V DC

Environmental Information:
Temperature Range: Ambient: -40°C to +65°C (-40°F to +149°F)

Mechanical Information:
Termination: 8 pin Octal Style Plug or 11 pin spade terminals (Diagram C&D)
Enclosure: Black plastic case. Knob adjustable models have a dial scale for reference only.
Weight: 4 oz (114g) approx.

Outline Dimensions (Octal Syle):
Please contact us for information on 11-pin style

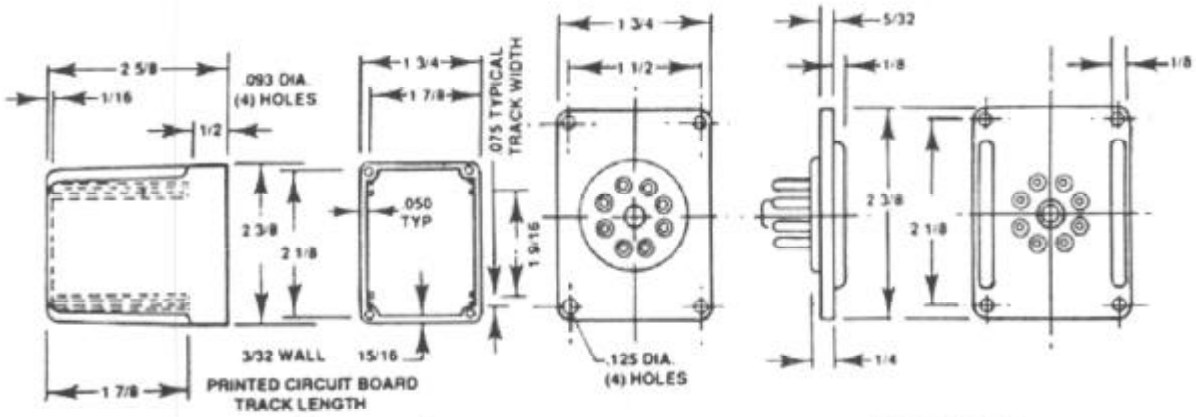


Diagram A Diagram B

Timing Specifications:
Timing - Fixed: 0.1 secs. through 300 secs.
Timing Ranges: Standard timing ranges are as follows:
.1 to 10 secs., .6 to 60 secs., 1.2 to 120 secs., 3 to 300 secs. **Custom timing is available.**
Timing Adjustment: Knob adjustable potentiometer.
Timing Tolerance: Fixed Units: ± 5%; Adjustable Units: -0 to +25% of maximum specified delay time.
Minimum specified value or less at low end.
Repeatability: ± 5%.

Initial Dielectric Strength:
Between open contacts: 750V RMS,
Between adjacent contacts: 1000V RMS,
Between contacts & coil: 1500V RMS

Input Information:
Voltage: AC units- 24V, and 120V; DC units- 24V, 48V and 110V. **Other voltages are available.**
Power Requirement: AC units: 2 VA or less; DC units: 2 Watts or less
Transient Protection: 1 JOULE MOV
Polarity Protection: On DC units - Yes

Input Voltages & Limits:

Nominal	Minimum	Maximum
24V AC	20V	28V
120V AC	105V	130V
24V DC	20V	32V
48V DC	41V	55V
110V DC	95V	125V

Wiring Diagrams:

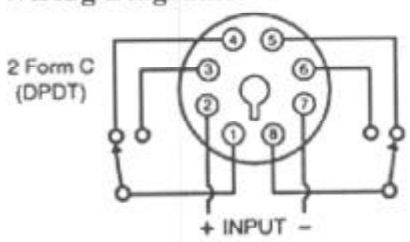


Diagram C

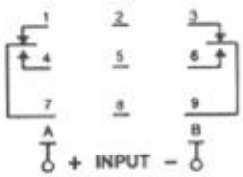


Diagram D

Ordering Information:
Definition of a part number for the Amperite DOD Series Time Delay Relay.
Example:

120	A	.6	-60	S	L	DOD
A	B	C	D	E	F	G

A: Denotes nominal input voltage. Voltages Available: 24 & 120V AC; 24, 48 & 110V DC. **Custom Voltages are available.**

B: Denotes type of input current required for operation:
A = AC - Alternating Current
D = DC - Direct Current

C & D: Denotes range of knob adjustability for timing (in seconds or minutes) where:
C = Minimum time delay. D = Maximum time delay for adjustable TDR'S.
Note: 1.) Ranges available: See standard timing ranges above. **Custom Timing is available.**
2.) Both values (C & D) can be replaced by a single value for a factory preset time delay in seconds or minutes from 0.1 secs. through 300 secs.

E: Denotes use of seconds or minutes in timing value(s), S = seconds, M = minutes.

F: Enter "L" if optional 11-pin spade terminals are required (Diagram D).
Please contact us for dimensional differences.

G: Denotes DPDT (2 form C) 4 amp delay on dropout DOD Series Time Delay Relay.

Product Selection Table - Main Menu
Overview of Amperite product line